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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,280	11/26/2003	Hirofumi Fukuoka	0171-1042P	5464	
	7590 03/19/200 ART KOLASCH & BI		EXAMINER		
PO BOX 747 WEINER, LAURA S				LAURA S	
FALLS CHURCH, VA 22040-0747			ART UNIT PAPER NUMBER		
1745					
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE		
3 MONTHS 03/19/2007		ELECTRONIC			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Applicatio	n No.	Applicant(s)		
		10/721,28	0	FUKUOKA ET AL.		
	Office Action Summary	Examiner		Art Unit		
		Laura S. W	/einer_	1745		
Dariad f	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	orrespondence address		
	• •	DLV IC CET TO	SEVELE AMONTHY	C) OD THIDTY (20) DAYO		
WHIO - Exte afte - If NO - Fail Any	HORTENED STATUTORY PERIOD FOR REICHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR os IX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state of the process of the office later than three months after the managed patent term adjustment. See 37 CFR 1.704(b).	B DATE OF TH R 1.136(a). In no ever riod will apply and will atute, cause the appli	IS COMMUNICATION nt, however, may a reply be tir expire SIX (6) MONTHS from cation to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
1)	Responsive to communication(s) filed on 05	5 February 200	7.			
2a)□		his action is no				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the n						
	closed in accordance with the practice unde	er Ex parte Qua	ayle, 1935 C.D. 11, 45	i3 O.G. 213.		
Disposit	ion of Claims					
4)⊠	Claim(s) 1-10 is/are pending in the applicati	ion.				
	4a) Of the above claim(s) <u>7 and 8</u> is/are withdrawn from consideration.					
5)[Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-3,5 and 9 is/are rejected.					
7)🖂	Claim(s) 4,6 and 10 is/are objected to.					
8)□	Claim(s) are subject to restriction and	d/or election re	quirement.			
Applicat	ion Papers					
9) 🗌	The specification is objected to by the Exam	niner.	•	•		
10)	The drawing(s) filed on is/are: a) _ a	accepted or b)[objected to by the E	Examiner.		
	Applicant may not request that any objection to t	the drawing(s) be	e held in abeyance. See	37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the corr	rection is require	d if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is objected to by the	Examiner. No	te the attached Office	Action or form PTO-152.		
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for forei ☐ All b)☐ Some * c)☐ None of:	ign priority und	er 35 U.S.C. § 119(a) ·	-(d) or (f).		
	1. Certified copies of the priority docume			•		
	2. Certified copies of the priority docume					
	3. Copies of the certified copies of the p	-		ed in this National Stage		
	application from the International Bur	,	* **			
- ;	See the attached detailed Office action for a I	list of the certifi	ied copies not receive	d.		
	•					
Attach			•			
Attachmer 1) 🔯 Notic	n(s) ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)		
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ite		
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>1-04</u> .		5) Notice of Informal P 6) Other:	atent Application		
	51 110(5)/IVIAII DALE <u>1-04</u> .		o, oulei			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-6, 9-10 in the reply filed on 2-5-07 is acknowledged. The traversal is on the ground(s) that it would not be a burden to search both inventions. This is not found persuasive because searching for Inventions I and II would require two independent and separate searches such as searching for Group I in class 429 subclass 232 and searching for Group II in class 427 subclass 58.

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 7-8 are withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention, the requirement having been traversed in Paper No.
- 3. After further consideration the election of a species has been withdrawn.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1-3, 5, 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsubara et al. (6,733,922).

Matsubara et al. teaches in column 1, a lithium secondary battery comprising a negative material comprising a carbonaceous material. Matsubara et al. teaches in column 1, lines 33-44, that there are three suggested kinds of silicon material such as 1) a simple mixture material in which a silicon compound powder is added to graphite, 2) a graphite material in which a silicon compound particulate is chemically immobilized on the surface of the graphite by means of a silane coupling agent and 3) a material in which a graphite-based carbon material and a metal material such as Si are bound and coated with an amorphous carbon material.

Allowable Subject Matter

6. Claims 4, 6, 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujiioka et al. (JP 2001-216961, abstract) teaches a silicon oxide is used as a negative electrode active material for a lithium secondary battery which is treated with a silane coupling agent.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura S Weiner Primary Examiner Art Unit 1745

March 13, 2007